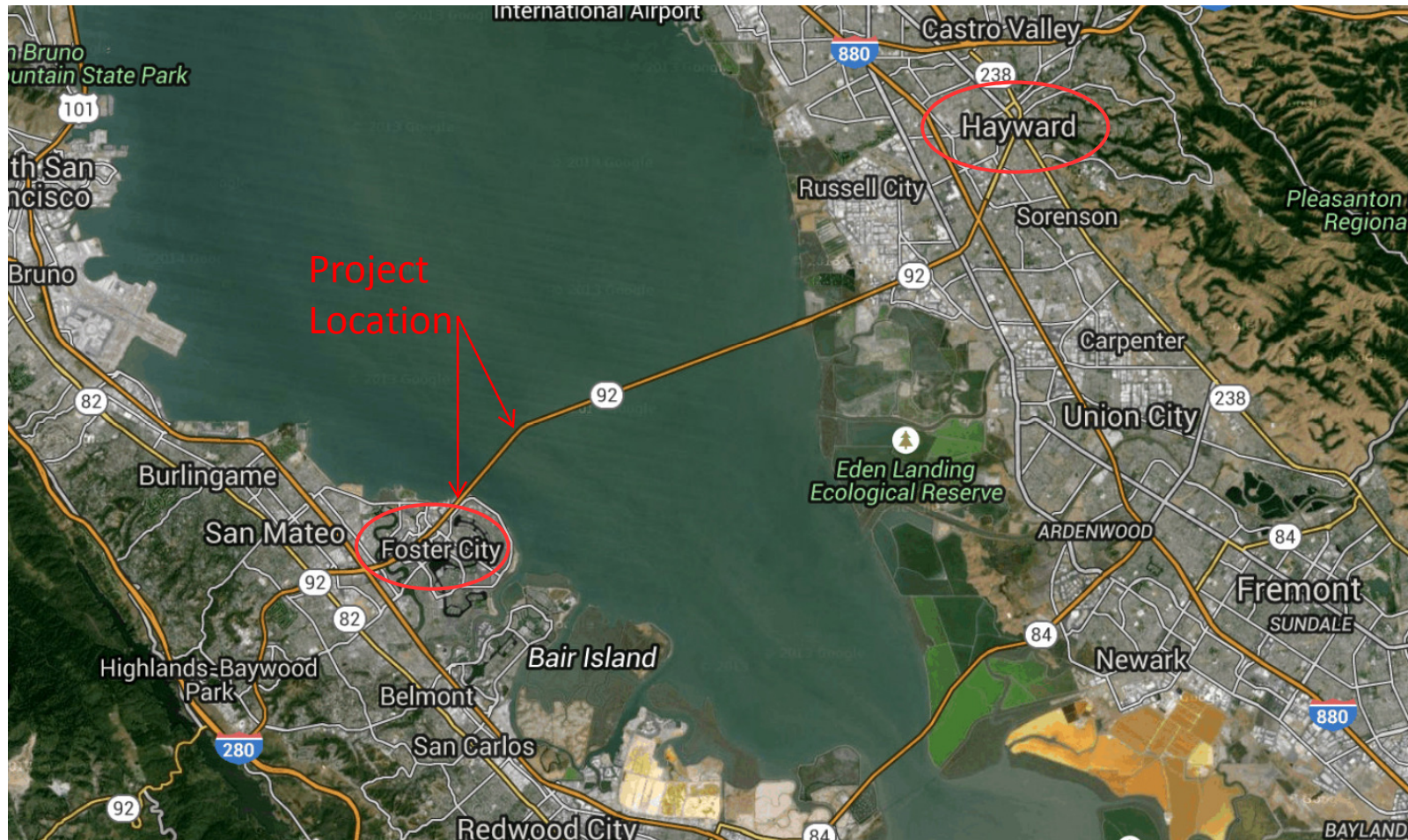


Pre-Bid Meeting, August 28, 2015
San Mateo – Hayward Bridge **Paint Project**
Contract EA 04-3G4864



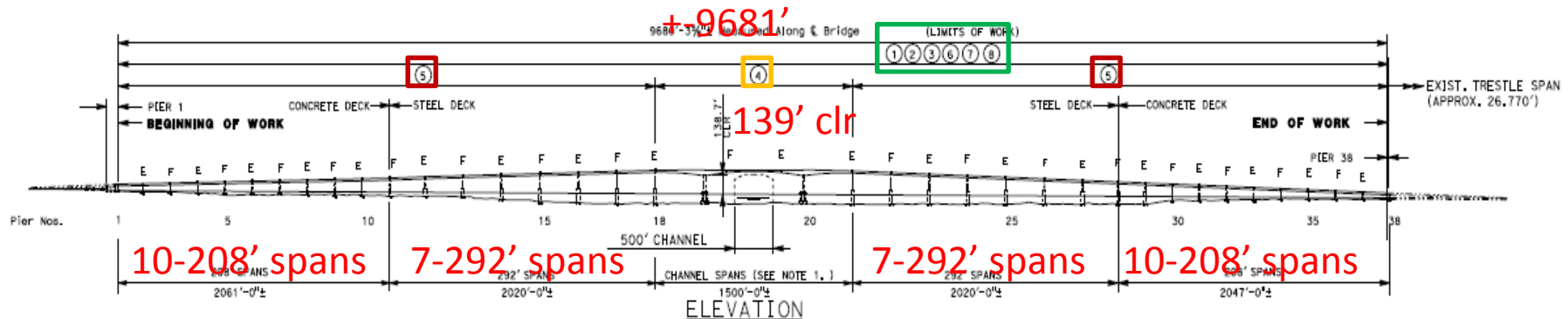
San Mateo – Hayward Bridge, High Rise



Contract Overview (Including Addendum 2)

- 1. Clean/Spot Blast Clean/Paint**
- 2. Bridge Removal/Misc Bridge Metal**
- 3. Structural Steel**
- 4. Construction Access Related**

General Plan



① CLEAN STRUCTURAL STEEL (EXISTING BRIDGE) AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE). SEE "TYPICAL SECTION-208' SPAN & 292' SPAN" & "TYPICAL SECTION CHANNEL SPAN" SHEETS.

② SPOT BLAST CLEAN AND PAINT UNDERCOAT. EXACT LOCATION OF SPOT BLAST CLEAN AND PAINT UNDERCOAT TO BE DETERMINED BY THE ENGINEER. SEE "TYPICAL SECTION-208' SPAN & 292' SPAN" & "TYPICAL SECTION CHANNEL SPAN" SHEETS, AND "PAINT PIER NO. ON ACCESS DOOR & EXIST. WEB" SHEET.

③ REMOVE AND REPLACE PIER LADDERS, HANDRAILS, PLATFORM LADDERS, PLATFORM RAILINGS, AND ACCESS DOOR HINGES. SEE "HANDRAIL @ PIERS" & "PLATFORM LADDER, PLATFORM RAILING & HINGE BOX SCREEN" SHEETS.

④ REMOVE AND REPLACE STRUCTURAL STEEL BOLTS, SEE "REPLACE STRUCTURAL STEEL BOLTS - DETAILS -1" & "REPLACE STRUCTURAL STEEL BOLTS - DETAILS -2" SHEETS.

⑤ FURNISH AND INSTALL SPIKE STRIPS ON TRAVELER RAIL TOP FLANGE AT WING PANEL, INNER RAILS, SEE "TYPICAL SECTION-208' SPAN & 292' SPAN" & "PIER LADDER & SPIKE STRIP" SHEETS.

⑥ CLEAN HINGE BOX SECTION STEEL AND PAINT HINGE BOX SECTION, STEEL, SEE "HINGE BOX SECTION" SHEET.

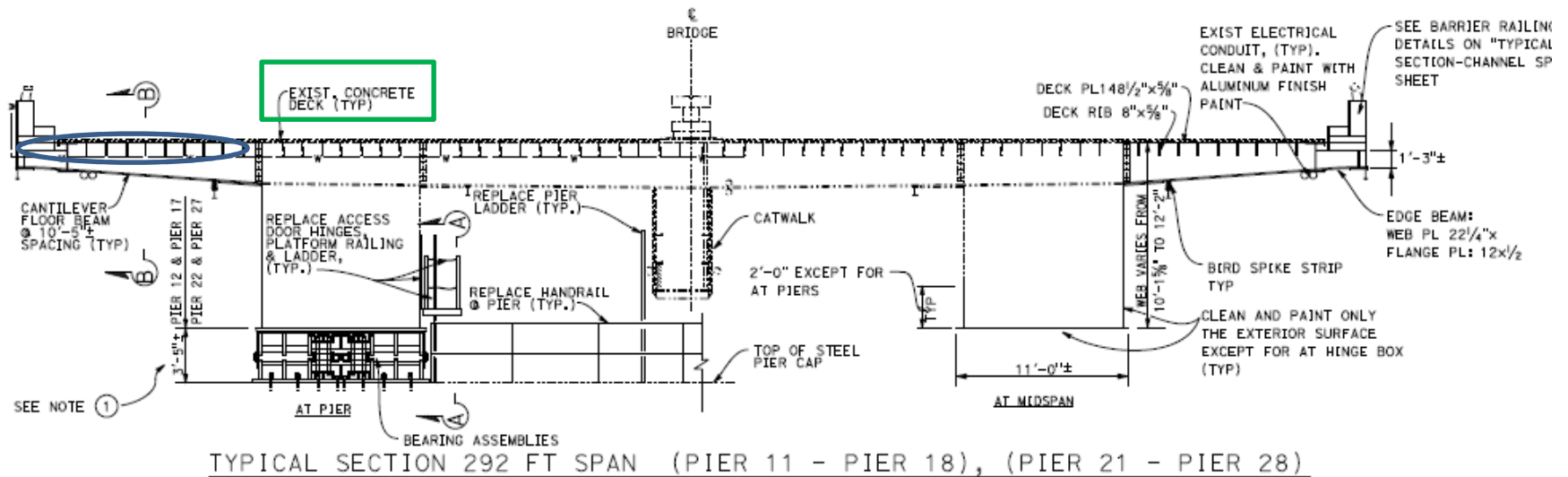
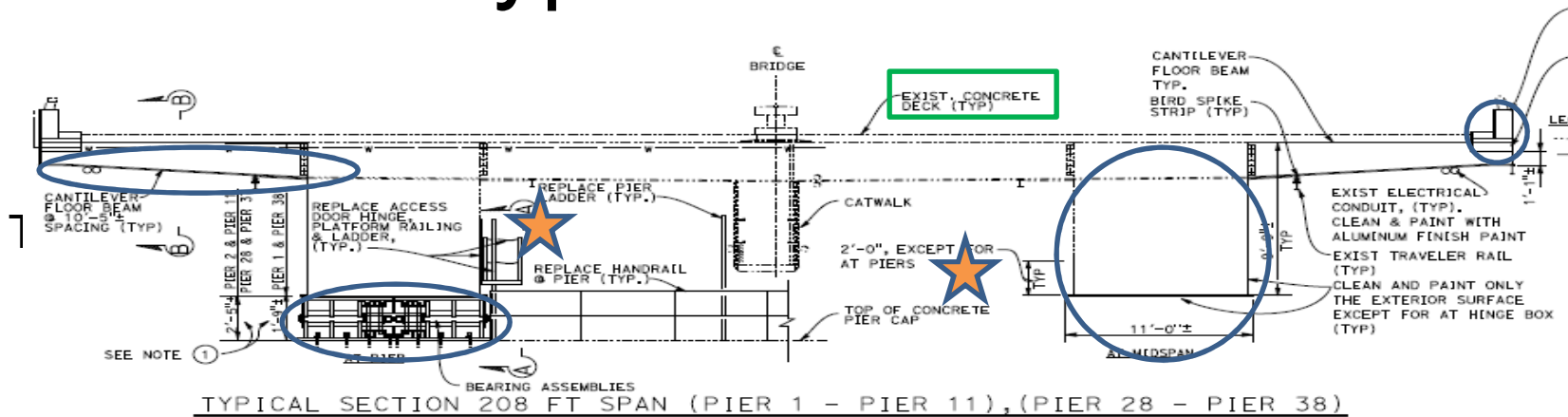
⑦ FURNISH AND INSTALL HINGE BOX SCREEN, SEE "HINGE BOX SECTION" & "PLATFORM LADDER, PLATFORM RAILING & HINGE BOX SCREEN" SHEETS.

⑧ PAINT PIER NUMBER ON ACCESS DOORS AND EXTERIOR WEB OF BOX GIRDER. SEE DETAILS ON "PAINT PIER NO. ON ACCESS DOOR & EXTERIOR WEB" SHEET.

1. Clean/Spot Blast Clean/Paint

- Job Specific Scaffolding - Section 7-1.02K(6)(e)
- Job Specific Containment – Section 59-2.03B (3)(b)(ii)
- Job Specific Coating System – Section 59-2.03C(4)(a)

Typical Sections

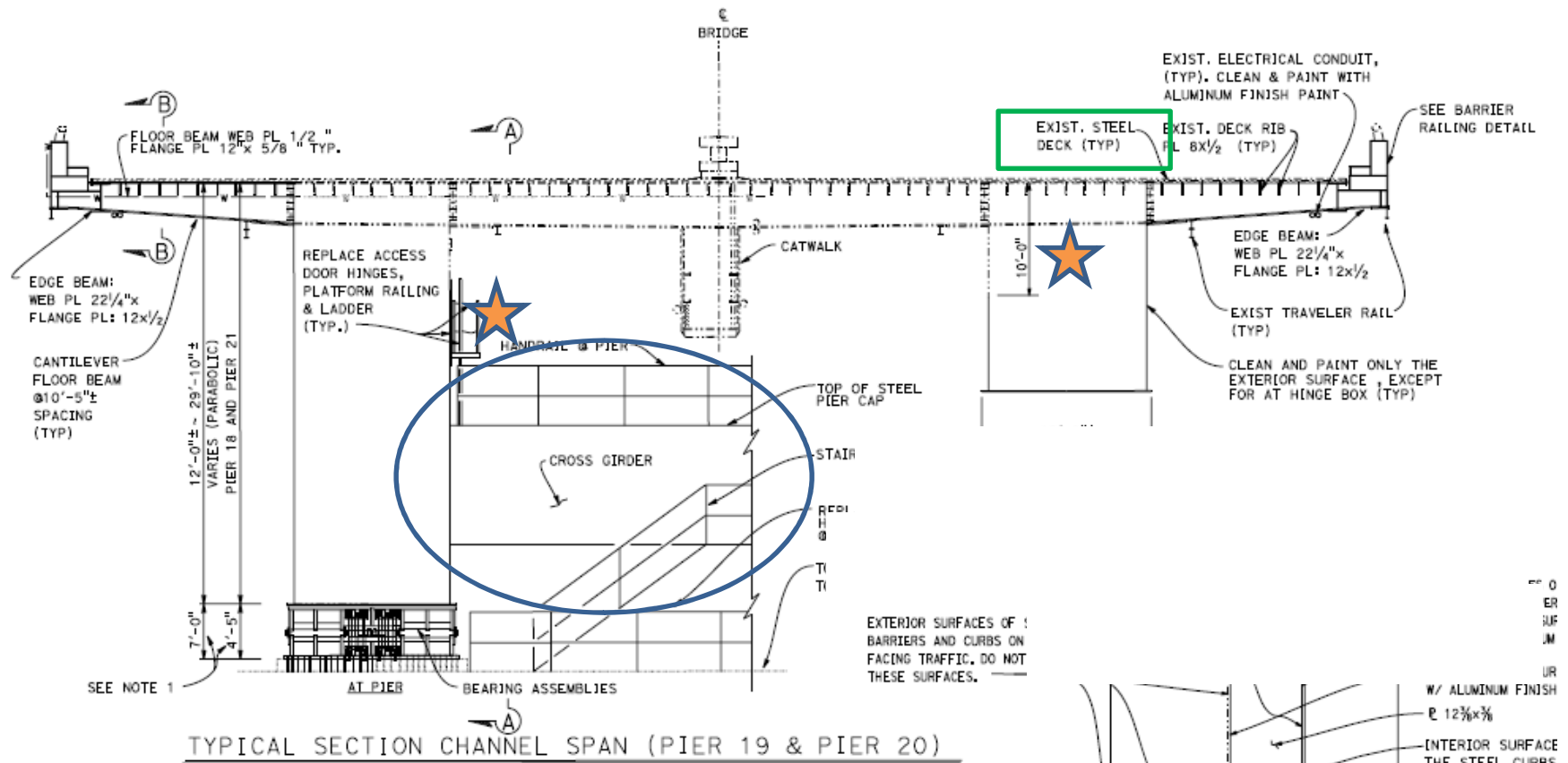


Denotes typical members to be cleaned and painted



Denotes special paint limits

Typical Sections

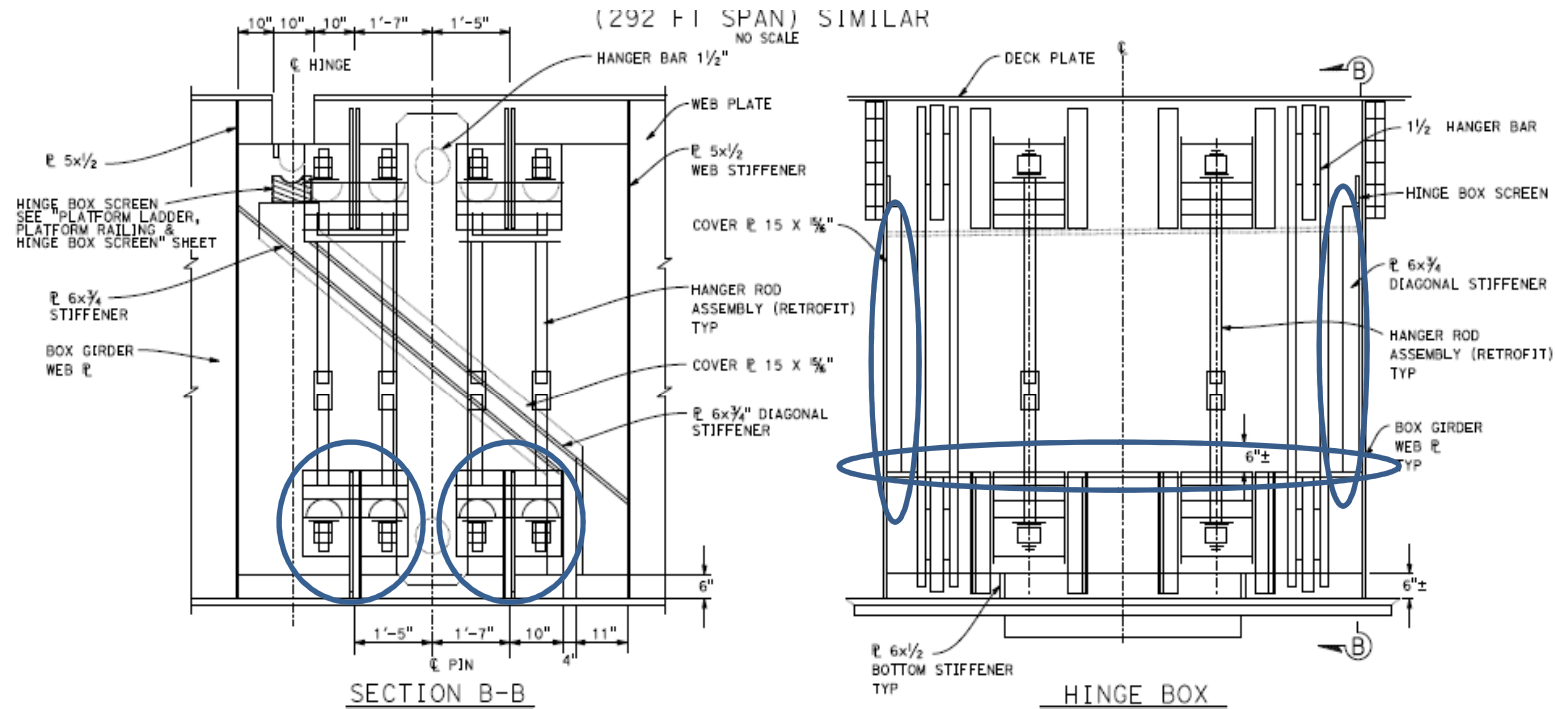


Denotes typical members to be cleaned and painted, in addition to the previous Typical Sections slide




Denotes special paint limits

Typical Sections



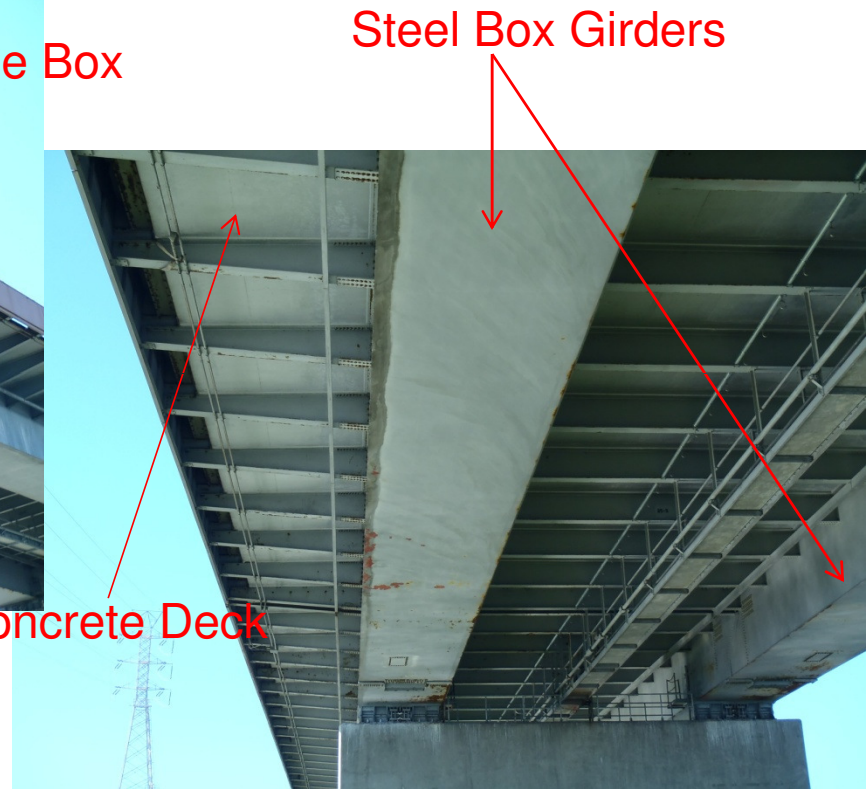
See Table on "Hinge Box Section" for Locations

 Typical elements to be cleaned and painted

Typical Photos



Hinge Box



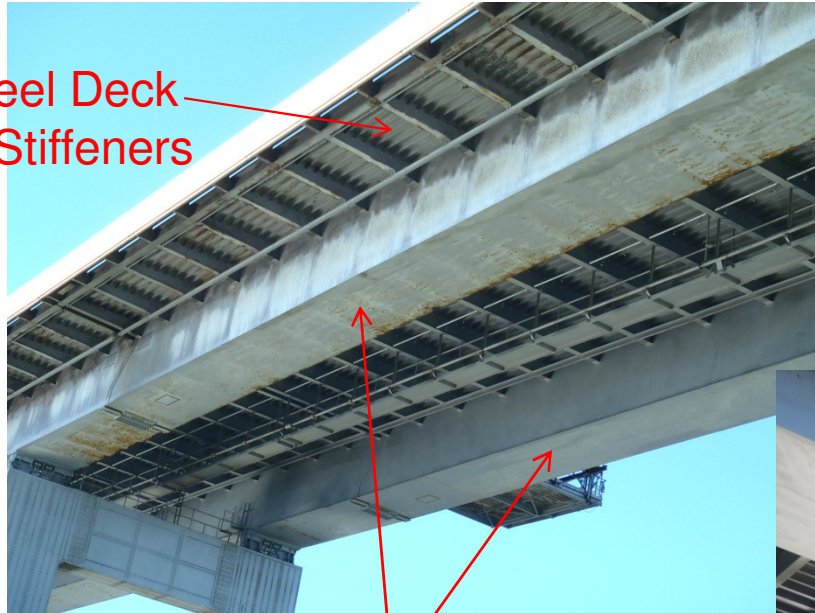
Steel Box Girders

Concrete Deck

208-ft Spans

Typical Photos

Steel Deck
& Stiffeners



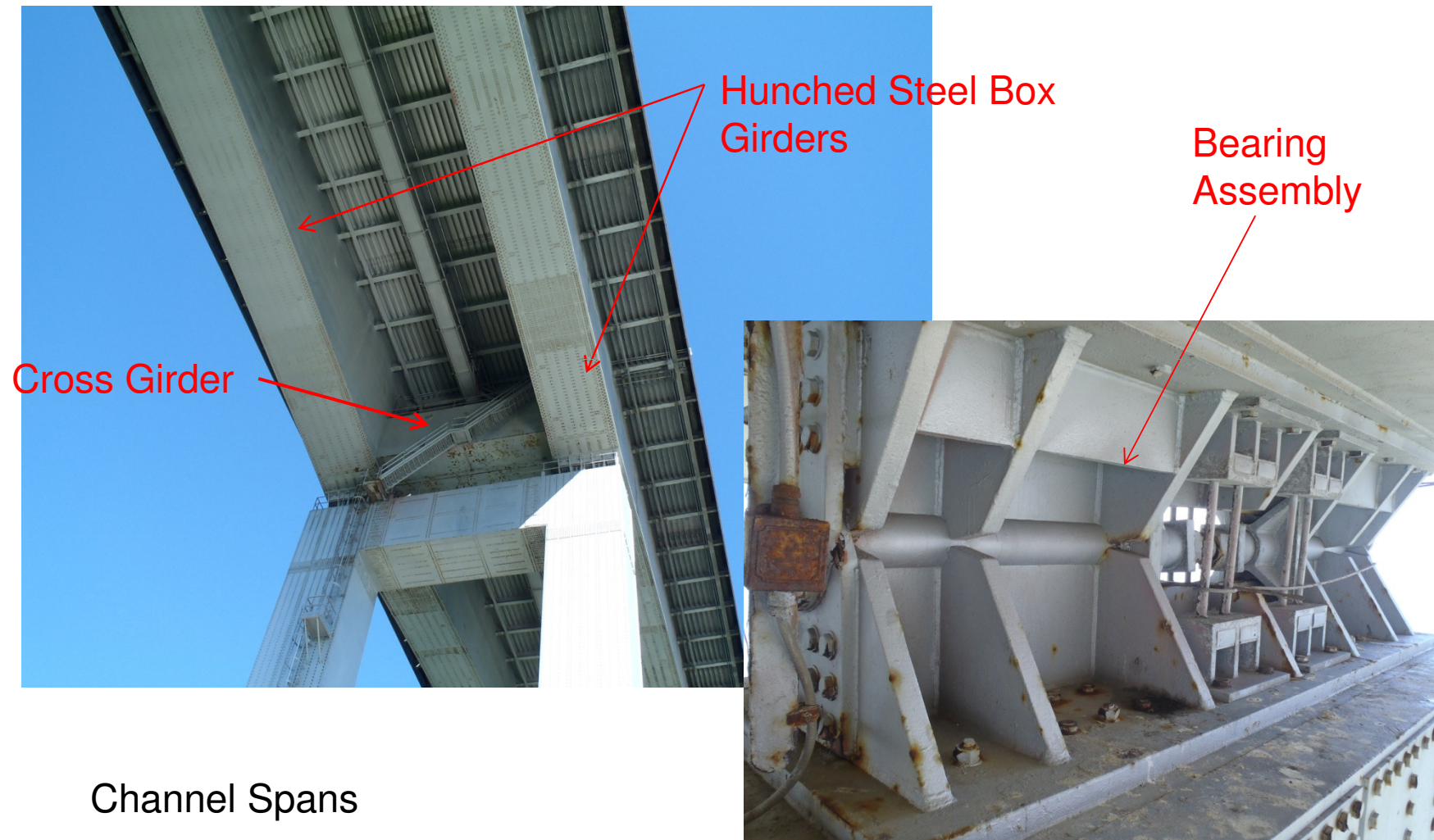
Steel Box Girders

292-ft Span

Hinge Box



Typical Photos



Typical Photos – Inside Hinge Box



Excess guano and debris in Hinge Chamber, S-7-18.

2. Bridge Removal/Misc Bridge Metal

Add to section 15-4.01C(1):

Remove the following portions of bridges:

Bridge no.	Description of work
35-0054	Remove pier ladders, handrails, platform ladders, platform railings, access door hinges, structural steel bolts where shown.

Bridge Removal
(Portion)

Add to the list in the 2nd paragraph of section 75-1.03A:

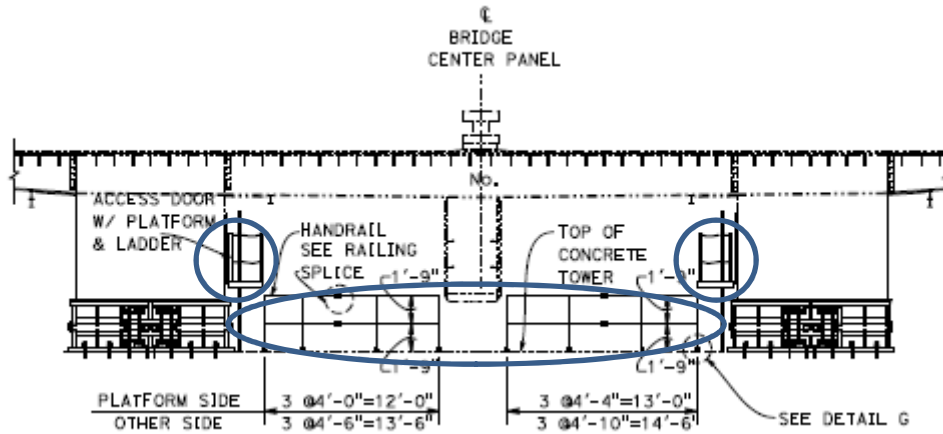
6. Pier ladders, platform ladders
7. Handrails, platform railings
8. Access door hinges
9. Hinge box screens

Misc Bridge Metal

Replace section 75-1.03J with:

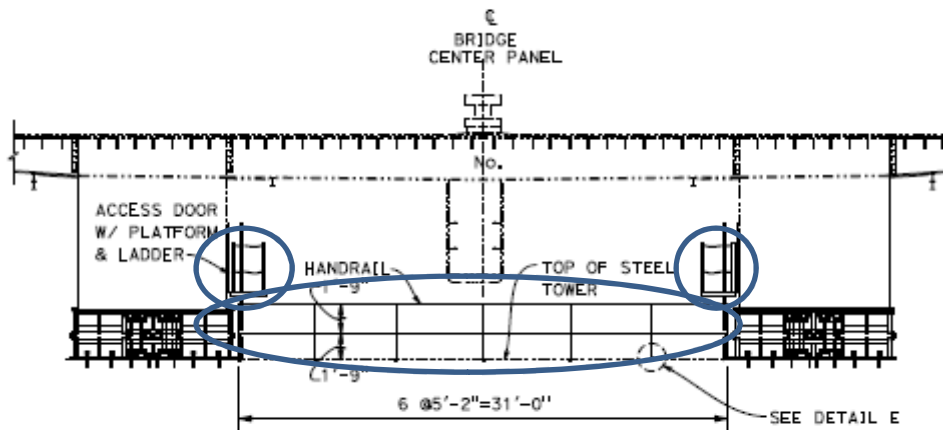
75-1.03J BIRD SPIKES

Misc Steel at Towers



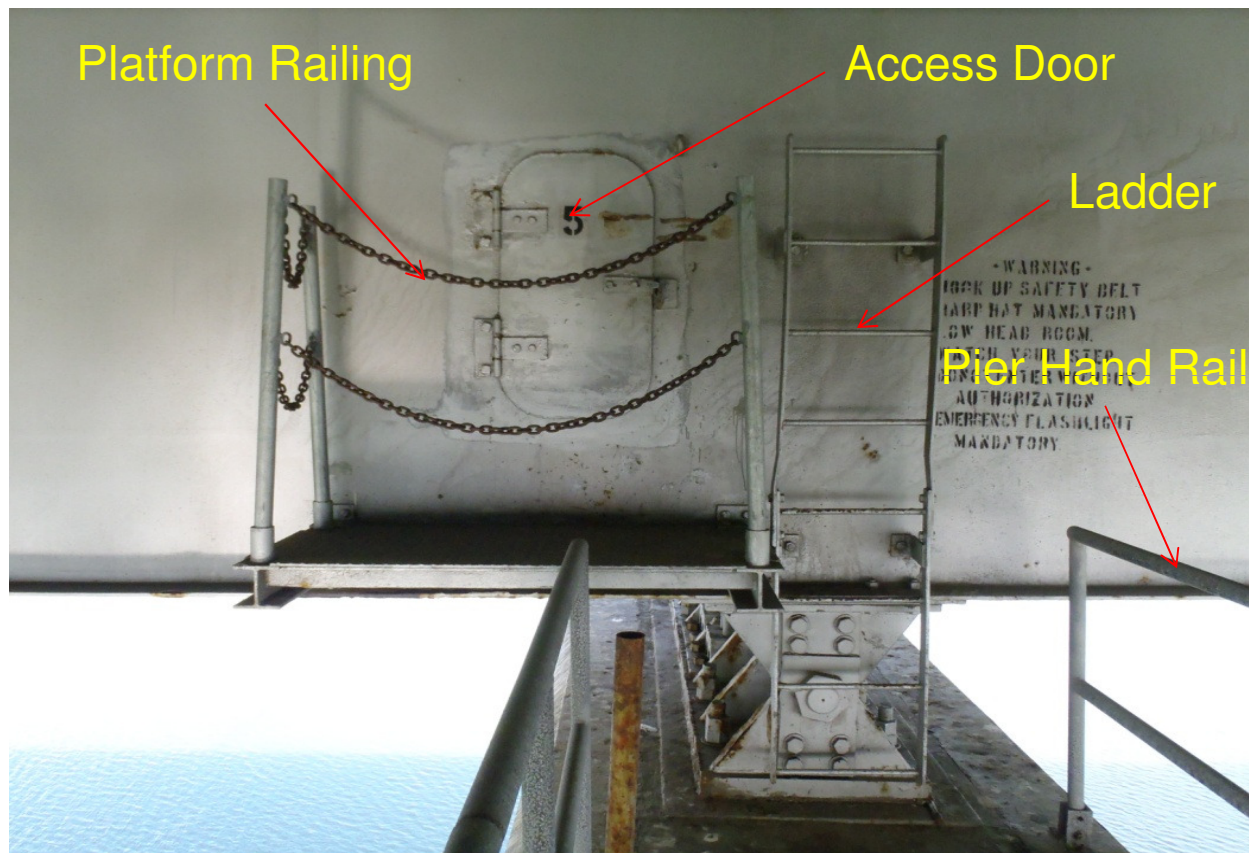
Typical Item Elements

CONCRETE TOWERS



STEEL TOWERS


Typical Photos



3. Structural Steel

Install new HS Structural Bolts (Approximate 25,000 EA)

Structural
Steel (lb)

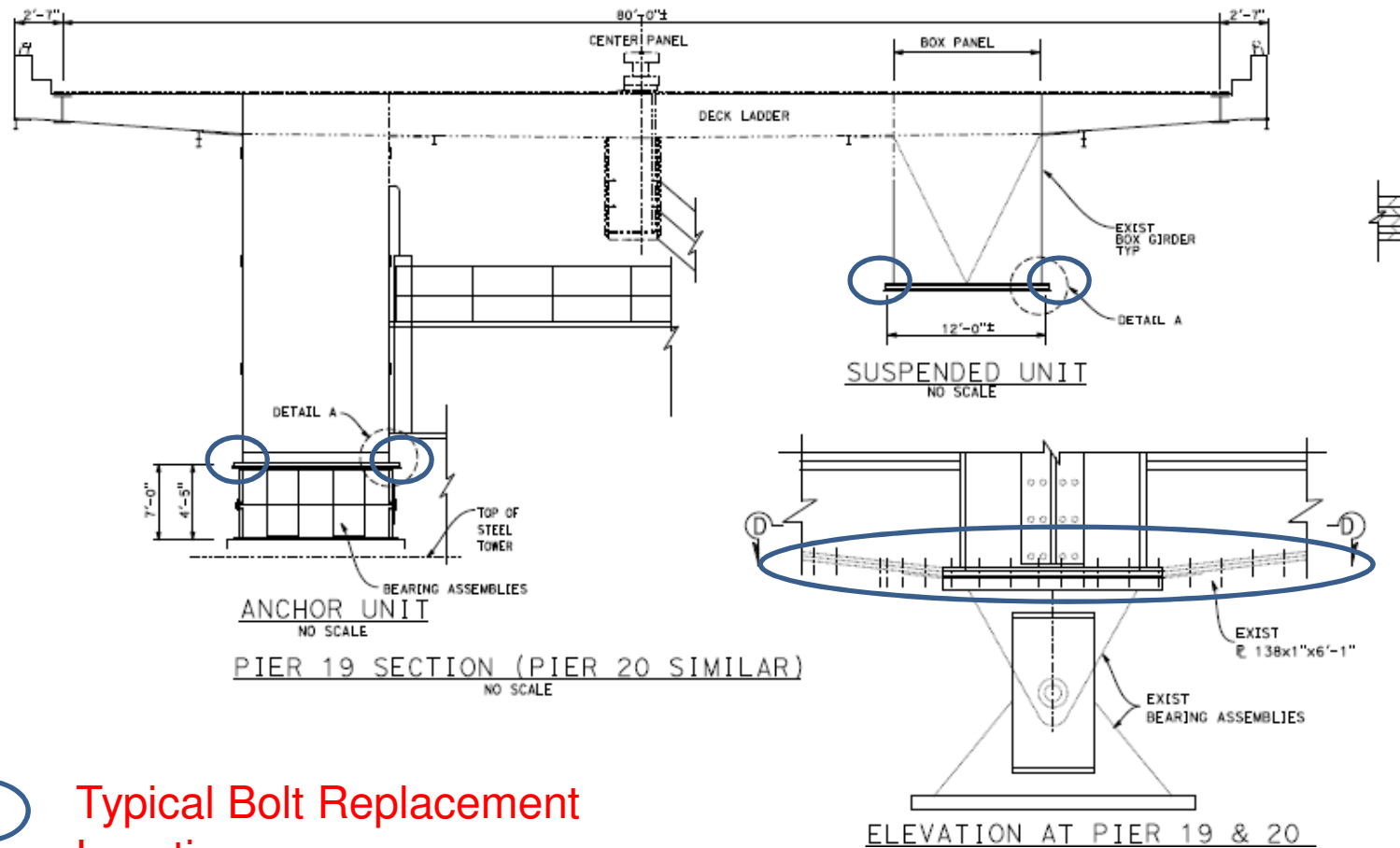


55 STEEL STRUCTURES

Add to section 55-1.02B(6)(a):

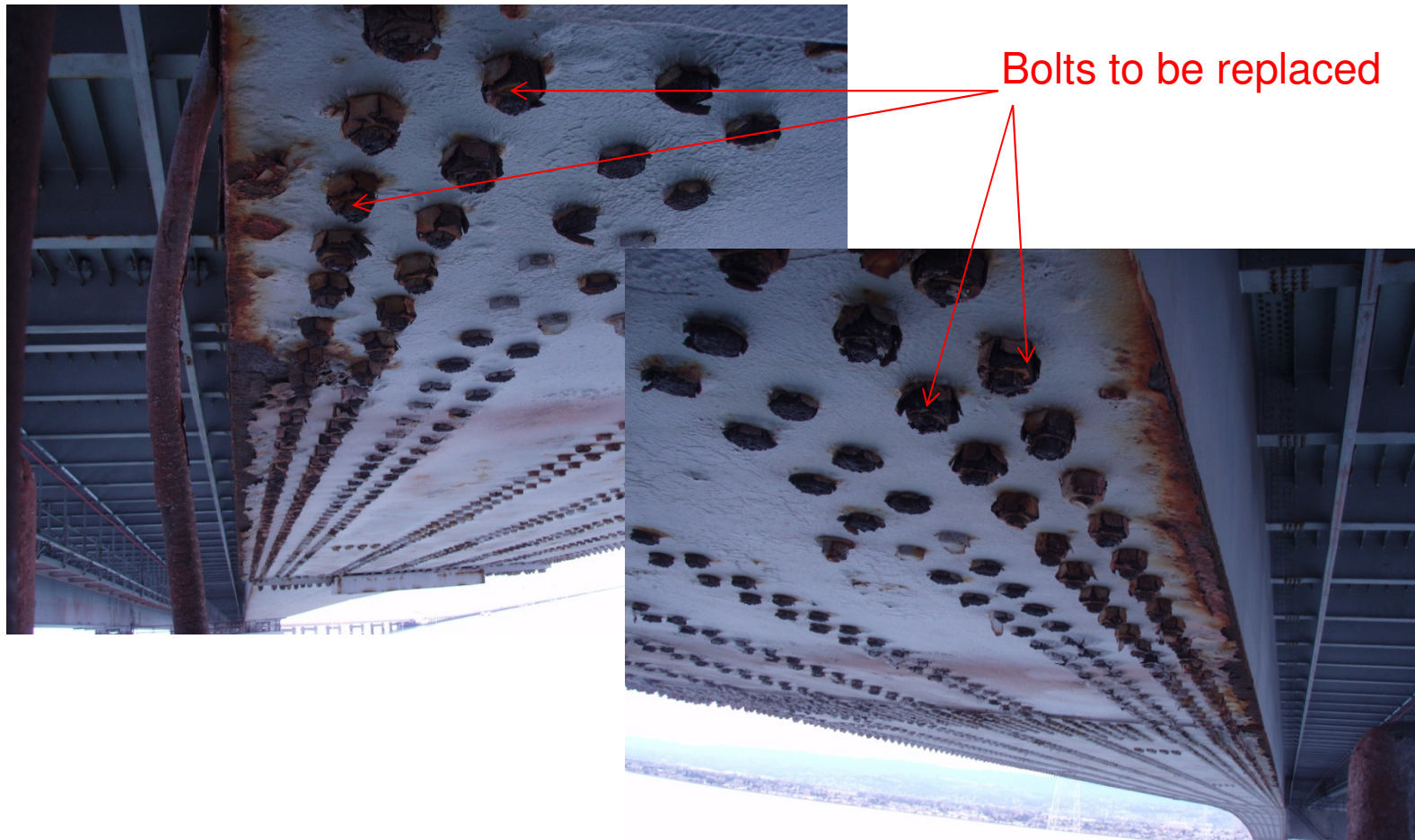
Zinc coat the HS steel fastener assemblies and other fasteners attached to structural steel. If direct tension indicators are used, all components of these fastener assemblies must be zinc coated by mechanical deposition.

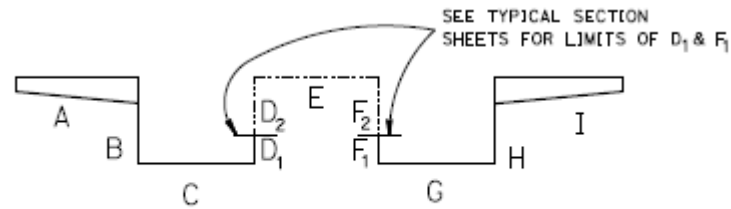
Plan Details - Portion



○ Typical Bolt Replacement Locations

Typical Photos





BRIDGE CROSS SECTION & AREA BREAK DOWN

ESTIMATED % OF SPOT BLAST CLEAN AREA									
SPAN	NORTH BOX			SOUTH BOX				SPAN	
	A	B	C	D_1	F_1	G	H	I	LENGTH
1	100	100	100	100	100	100	50	20	208' Span
2	50	50	50	20	50	50	50	20	"
3	50	50	50	20	50	50	50	20	"
4	50	50	50	50	50	50	50	20	"
5	50	50	50	50	50	50	20	20	"
6	50	100	100	20	50	100	100	50	"
7	50	100	50	20	50	100	100	50	"
8	50	100	100	20	50	100	100	100	"
9	50	100	50	20	50	50	100	50	"
10	50	50	100	30	50	50	30	50	"
11	50	50	100	20	50	100	50	100	270' Span
12	50	100	100	20	50	100	50	50	292' Span
13	100	100	100	50	50	100	50	100	"
14	100	100	100	50	50	100	50	100	"
15	100	50	100	40	50	100	20	50	"
16	100	50	100	50	100	50	50	50	"
17	50	50	100	20	20	100	50	50	"
18	50	50	50	50	20	50	50	100	375' Span
19	50	50	100	50	50	50	50	100	750' Span
20	50	100	50	40	40	50	40	50	375' Span
21	100	50	50	20	20	50	50	100	292' Span
22	50	50	40	50	50	100	50	100	"

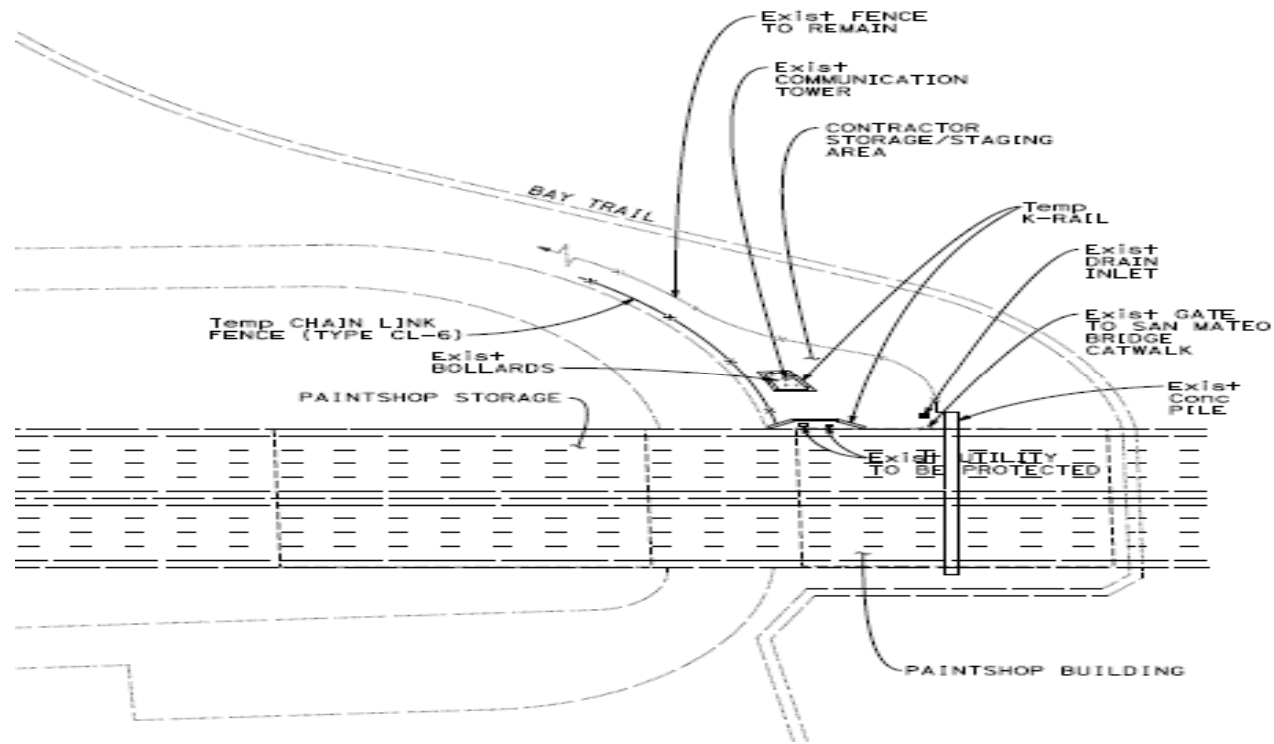
NOTE:

1. THE PERCENTAGES SHOWN IN THE TABLE IS FOR QUANTITY ESTIMATE PURPOSE ONLY, THE ACTUAL AREA TO BE BLAST CLEANED SHALL BE DETERMINED BY THE ENGINEER.

ESTIMATED % OF SPOT BLAST CLEAN AREA									
SPAN	NORTH BOX			SOUTH BOX				SPAN	
	A	B	C	D_1	F_1	G	H	I	LENGTH
23	100	100	30	20	20	100	50	100	292' Span
24	50	40	50	20	50	100	50	100	"
25	50	40	30	40	50	100	50	100	"
26	80	50	50	50	50	100	50	100	"
27	100	50	30	50	50	100	40	100	270' Span
28	50	100	100	20	20	100	50	100	208' Span
29	100	100	20	20	20	20	50	100	"
30	100	100	40	20	20	100	50	100	"
31	100	100	100	20	20	50	100	50	"
32	50	50	20	100	50	20	40	100	"
33	100	100	20	100	100	20	50	100	"
34	100	40	20	100	100	20	50	50	"
35	100	50	100	50	100	100	50	100	"
36	50	50	50	100	100	50	50	50	"
37	50	50	50	20	100	50	50	50	"
Pier 38									End of Bridge

2. AREAS D_2 , E, AND F_2 ARE NOT PART OF THIS CONTRACT.

4. Construction Access Related

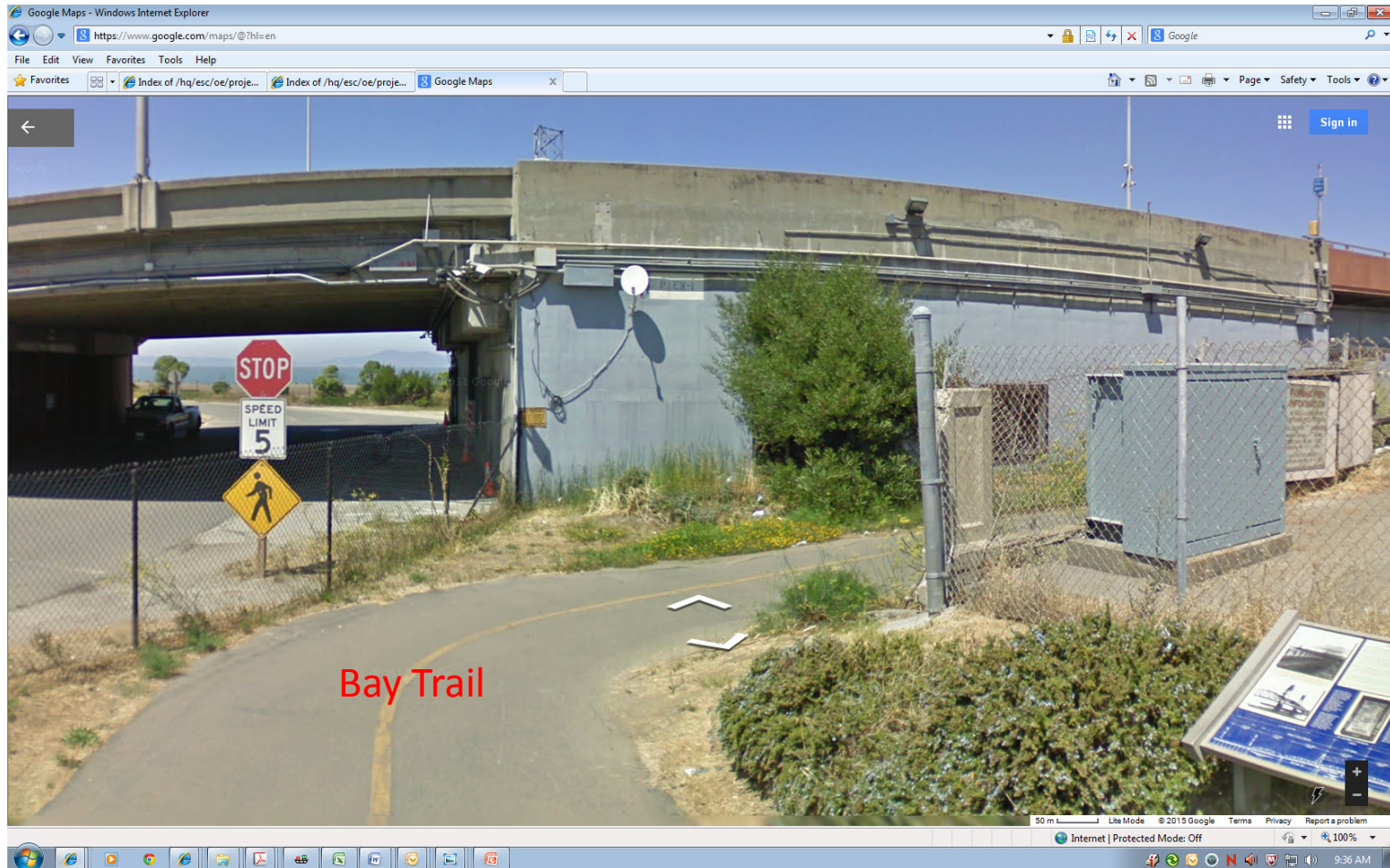


Construction Details – Sheet C-1

Area Photos



Area Photos



Area Photos



Area Photos

